

JP,2002-244676,A [TECHNICAL FIELD]

1/1 ページ



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**TECHNICAL FIELD**

[Field of the Invention] Although this inventions are a karaoke distribution system and a thing about the karaoke distribution system to a walkie-talkie terminal, they are more applicable to a detail also at for example, the online karaoke system for mount.

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**PRIOR ART**

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[Description of the Prior Art] Although the online karaoke system which used PHS is indicated by JP,09-026798,A, this distributes the karaoke compressed data stored in the database center to a PHS terminal through a public line and a PHS base station. Moreover, it connects with online karaoke equipment from a portable telephone with an interface card, and the online karaoke system which makes it possible to receive distribution of a karaoke request song is indicated by JP,11-007290,A.

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**TECHNICAL PROBLEM**

[Problem(s) to be Solved by the Invention] This invention is not asked indoor [ of a user ] outside, but aims at offering the system which carries out karaoke distribution of the same music at coincidence to two or more men using offering the karaoke distribution system which can enjoy karaoke while displaying a favorite static image and words, a favorite location and when you like, and a walkie-talkie terminal using a personal digital assistant.

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**DETAILED DESCRIPTION****[Detailed Description of the Invention]****[0001]**

**[Field of the Invention]** Although this inventions are a karaoke distribution system and a thing about the karaoke distribution system to a walkie-talkie terminal, they are more applicable to a detail also at for example, the online karaoke system for mount.

**[0002]**

**[Description of the Prior Art]** Although the online karaoke system which used PHS is indicated by JP.09-026798.A, this distributes the karaoke compressed data stored in the database center to a PHS terminal through a public line and a PHS base station. Moreover, it connects with online karaoke equipment from a portable telephone with an interface card, and the online karaoke system which makes it possible to receive distribution of a karaoke request song is indicated by JP.11-007290.A.

**[0003]**

**[Problem(s) to be Solved by the Invention]** This invention is not asked indoor [ of a user ] outside, but aims at offering the system which carries out karaoke distribution of the same music at coincidence to two or more men using offering the karaoke distribution system which can enjoy karaoke while displaying a favorite static image and words, a favorite location and when you like, and a walkie-talkie terminal using a personal digital assistant.

**[0004]**

**[Means for Solving the Problem]** Invention of claim 1 has an indicating equipment, equips with the medium which memorizes still picture data, and is characterized by consisting of a walkie-talkie terminal which performs transmission of a distribution demand of karaoke music, and reception of distribution karaoke music information, and a server which distributes karaoke music data and the control data of a still picture according to the karaoke music distribution demand from this walkie-talkie terminal.

**[0005]** Invention of claim 2 is set to invention of claim 1. By the karaoke music distribution demand from a walkie-talkie terminal The karaoke music data distributed from the server and the control data of a still picture, and the still picture data beforehand saved in the external storage with which the walkie-talkie terminal was equipped by compounding within said walkie-talkie terminal It is characterized by displaying words and a still picture on the display of this walkie-talkie terminal.

**[0006]** In claim 1 or invention of 2, invention of claim 3 is characterized by a server distributing karaoke music information to coincidence to two or more walkie-talkie terminals with the distribution demand, when it is required that coincidence distribution of the karaoke music should be carried out from a walkie-talkie terminal to two or more walkie-talkie terminals.

**[0007]** In invention of claim 3, when invention of claim 4 is carrying out coincidence distribution of the karaoke music to two or more walkie-talkie terminals, it compounds to a server two or more walkie-talkie terminal users' singing voice sung according to the karaoke music through a walkie-talkie terminal delivery and there, and is characterized by distributing to two or more of the walkie-talkie terminals with karaoke music anew.

**[0008]** In invention of claim 1 thru/or either of 4, invention of claim 5 is characterized by

performing authentication to a walkie-talkie terminal user using the number of a walkie-talkie terminal, in case a karaoke music distribution demand is received from a walkie-talkie terminal and a server distributes karaoke information to the walkie-talkie terminal.

[0009] Invention of claim 6 is characterized by a karaoke distribution entrepreneur doing tariff collection from a walkie-talkie terminal user in invention of claim 1 thru/or either of 5 according to the count of a karaoke music distribution demand from a walkie-talkie terminal.

[0010] Invention of claim 7 is characterized by collecting the charge of karaoke distribution from a walkie-talkie terminal user in invention of claim 1 thru/or either of 5 by selling the storage with which a karaoke distribution entrepreneur stores still picture data.

[0011] Invention of claim 8 is characterized by collecting the charge of advertising printing from an advertising provider in invention of claim 1 thru/or either of 7 instead of distributing the advertising information other than karaoke music data and still picture control data from a server in the case of the karaoke music distribution demand from a walkie-talkie terminal user.

[0012] Invention of claim 9 used to offer the information by distributing the mail which indicated the information about karaoke music to a walkie-talkie terminal in invention of claim 1, and a walkie-talkie terminal user used to be characterized by performing a karaoke music distribution demand simply from a server using the mail.

[0013] When invention of claim 10 gives the change demand of the display interval of the still picture for karaoke to a server in invention of claim 1 through a walkie-talkie terminal, a server is characterized by distributing the still picture control data according to the display interval to a walkie-talkie terminal.

[0014]

[Embodiment of the Invention] Drawing 1 is drawing for explaining an example of the whole configuration in the karaoke distribution system with a still picture concerning the gestalt of operation of this invention, and the walkie-talkie terminal which one transmits a karaoke distribution demand among drawing, and receives karaoke information, the server in which 2 has a base transceiver station or an access point, and the database with which 4 offers karaoke music information, and 3 are cables which connect between a base transceiver station or an access point 2, and a server 4. this -- between a public line network, the Internet, a base transceiver station or an access point 2, and servers 4 -- a pier -- the cable tied with -- Thu and a pier can be considered. The karaoke distribution demand transmitted from the walkie-talkie terminal 1 reaches a server 4 through an access point 2 and cable 3 grade. A server 4 distributes karaoke music information to the walkie-talkie terminal 1 through an access point 2 and cable 3 grade according to the karaoke distribution demand.

[0015] Drawing 2 is drawing for explaining an example of the internal configuration of the walkie-talkie terminal 1, and the wireless modem section in which an antenna and 12 perform the transceiver section and, as for 13, 11 performs the strange recovery of data, the microphone into which 16 inputs a user's singing voice, the loudspeaker to which 17 outputs karaoke music, and 15 are the speech processing sections which process the singing voice of the karaoke music or user to whom a voice-input/output interface and 14 were distributed. 23 is the external storage which stored the still picture, and this external storage 23 is connected with the walkie-talkie terminal 1 through an interface 19. The control unit to which 20 bears memory and 21 bears karaoke distribution demand actuation etc., and 22 are displays which display a still picture and the words advertised and distributed. CPU18 processes a transmitted and received data, or compounds the still picture memorized by external storage 23, and the still picture control data, words data and advertising data which were received.

[0016] Drawing 3 is drawing for explaining an example of the internal configuration with a karaoke database of a server, and 31 is the communication link interface section, and by connecting with the Internet, a public line, a wireless modem, etc., this interface section 31 distributes karaoke music information to the walkie-talkie terminal 1, or receives the demand from the walkie-talkie terminal 1. It is the data-processing section which 32 processes the transceiver section, and 33 processes the karaoke distribution requested data from the walkie-talkie terminal 1, and searches the requested karaoke music. 34 is the database which stores karaoke music information, and the still picture control data is also stored here. 35 is a database which manages

User Information and accounting information.

[0017] Next, the basic method of a karaoke distribution system with a still picture is explained. A walkie-talkie terminal user tries connection to a karaoke server using a control unit 21. CPU18 which received dial actuation builds karaoke distribution requested data, carries out a data modulation in the wireless modem section 13, and sends out a karaoke distribution demand to the karaoke server 4 through the transceiver section 12 and an antenna 11. As for this karaoke distribution requested data, that terminal number or telephone number etc. is contained for the user authentication of a walkie-talkie terminal. The sent-out data are sent to the karaoke distribution server 4 through a base station / access point 2, and a public line / Internet 3 grade. In the karaoke distribution server 4, the data-processing section 33 is passed and it attests by collating with User Information in a database 35 the terminal number or the telephone number contained in the karaoke distribution demand through the communication link interface section 31 and the transceiver section 32. If this authentication ends, the karaoke music list stored in the database 34 will be sent to the walkie-talkie terminal 1 through the data-processing section 33, the transceiver section 32, and the communication link interface section 31.

[0018] In the walkie-talkie terminal 1, it is received through an antenna 11, the transceiver section 12, and the wireless modem section 13, and a music list is displayed on a display 22 from CPU18. A terminal user chooses the karaoke music of hope from the list using a control unit 21. The music selection information is sent out towards a server 4 like karaoke distribution requested data. In the server 4 which received it, based on the music selection information, karaoke music data and still picture control data are picked out from a database 34, and it sends out to the walkie-talkie terminal 1. When also setting and distributing an advertisement, advertising data are also extracted from a database 34 to coincidence, and it sends to the walkie-talkie terminal 1.

[0019] When data are distributed, user accounting information is added to a database 35 for tariff collection. When the external storage containing a still picture is beforehand sold to a user and tariff collection has ended, it is not necessary to write in the accounting information database 35. The voice output of the music data is carried out from a loudspeaker 17 through the speech processing section 14 and the voice-input/output interface 15 among the karaoke music data received in the wireless modem section 13, and still picture control data. Moreover, still picture control data is sent to CPU18, is compounded with the still picture data stored in external storage 23, and is outputted to a display 22. When advertising data are contained, the data is also compounded to coincidence by CPU18, and an advertisement is displayed on a display 22.

[0020] Next, two or more men explain the example in the case of receiving karaoke distribution. A walkie-talkie terminal user adds the information on two or more karaoke distribution using a control unit 21, when performing a karaoke distribution demand. Under the present circumstances, the equipment item number or the telephone number in two or more walkie-talkie terminals which receive distribution is specified. A direct number may be inputted by the control unit 21, and you may specify using the address book beforehand stored in memory 20. After sending out distribution requested data, a server 4 sends a music list list to the walkie-talkie terminal which sent the demand. After a terminal user does music assignment using a control unit 21, a server 4 is distributed to coincidence to two or more walkie-talkie terminals which received assignment for the karaoke music data and the still picture control data of the assignment at the distribution demand. When managing accounting in the accounting database 35, accounting information may be added to the walkie-talkie terminal with which the distribution demand was sent, and accounting information may be added to two or more walkie talkie terminals which carry out music distribution.

[0021] In each terminal, although a user will sing according to karaoke music, he sends the singing voice towards a server 4 through a microphone 16, the voice-input/output interface 15, the speech processing section 14, the wireless modem section 13, the transceiver section 12, and an antenna 11. A server 4 compounds the singing voice from the multiple user in the data-processing section 33, and sends it out to the walkie-talkie terminal 1 with the karaoke music data distributed further. Thereby, each walkie-talkie terminal user can ask people's singing voice

sung together to karaoke music data and coincidence through a loudspeaker 17 on real time.

[0022] Mail including new song information can also be demanded from a terminal user to delivery and a karaoke distribution demand from a server to a walkie-talkie terminal. It can be made to carry out in that case a distribution demand simply using a control unit 21 by displaying on a display 22 the music list included in e-mail.

[0023] Moreover, the control unit 21 of a walkie-talkie terminal is used, and it enables it to change the display interval of the still picture within a terminal. From a terminal, a server sends the still picture control data according to it to a walkie-talkie terminal by sending display-interval modification data to a server.

[0024]

[Effect of the Invention] The walkie-talkie terminal which invention of claim 1 has an indicating equipment, equips with the medium which memorizes still picture data, and performs transmission of a distribution demand of karaoke music, and reception of distribution karaoke music information. Since it consists of servers which distribute karaoke music data and the control data of a still picture according to the karaoke music distribution demand from the above-mentioned walkie-talkie terminal, regardless of the outside of indoor, karaoke music can be requested for a walkie-talkie terminal to favorite time amount, and the distribution can be received in a favorite location. Moreover, words can be displayed on the display of a walkie-talkie terminal with a still picture.

[0025] According to invention of claim 2, by compounding the distributed karaoke music data and the still picture data in the external storage with which the Personal Digital Assistant was equipped, a still picture and words can be displayed on the display of a walkie-talkie terminal, and still picture karaoke can be enjoyed to playback and coincidence of karaoke music.

[0026] According to invention of claim 3, the karaoke music requested to the walkie-talkie terminal of two or more persons which it has can be distributed to coincidence to sing the karaoke music requested from the walkie-talkie terminal by two or more persons.

[0027] When singing the karaoke music requested from the walkie-talkie terminal by two or more men according to invention of claim 4, two or more of the men's singing voice can be summarized with karaoke music, and it can distribute to each walkie-talkie terminal at coincidence. Therefore, karaoke can be sung and enjoyed by two or more men using a walkie-talkie terminal.

[0028] According to invention of claim 5, user authentication in the case of a karaoke distribution demand can be performed by using the equipment item number or the telephone number of a walkie-talkie terminal.

[0029] According to invention of claim 6, a karaoke distribution entrepreneur can collect a tariff from a user by adding accounting information later, whenever a karaoke distribution demand is performed from the terminal in a walkie-talkie terminal user's karaoke toll.

[0030] According to invention of claim 7, a karaoke distribution entrepreneur can ensure collection of a tariff beforehand by making a walkie-talkie terminal user purchase a storage. Moreover, a user feels easy in the payment frame by carrying out prepaid one of the use tariff, and can use a karaoke distribution system.

[0031] According to invention of claim 8, since words are displayed on the display within a terminal, in case the user of the karaoke distribution system using a walkie-talkie terminal performs karaoke, he surely looks at the display. Therefore, an advertiser can distribute an advertisement effectively.

[0032] According to invention of claim 9, a karaoke distribution entrepreneur can demand use of a karaoke distribution system from a walkie-talkie terminal user by distributing information, such as a new song, by e-mail. A user can demand karaoke distribution of a new song or epidemic music easily from the distributed mail.

[0033] According to invention of claim 10, a walkie-talkie terminal user can change the display interval of a still picture easily using a control unit.

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**CLAIMS**

**[Claim(s)]**

[Claim 1] The karaoke distribution system with a still picture characterized by consisting of a walkie-talkie terminal which has an indicating equipment, equips with the medium which memorizes still picture data, and performs transmission of a distribution demand of karaoke music, and reception of distribution karaoke music information, and a server which distributes karaoke music data and the control data of a still picture according to the karaoke music distribution demand from this walkie-talkie terminal.

[Claim 2] The karaoke music data distributed from the server by the karaoke music distribution demand from a walkie-talkie terminal, and the control data of a still picture, The karaoke distribution system with a still picture according to claim 1 characterized by displaying words and a still picture on the display of this walkie-talkie terminal by compounding the still picture data beforehand saved in the external storage with which the walkie-talkie terminal was equipped within said walkie-talkie terminal.

[Claim 3] The karaoke distribution system with a still picture according to claim 1 or 2 by which a server is characterized by distributing karaoke music information to coincidence to two or more walkie-talkie terminals with the distribution demand when it is required that coincidence distribution of the karaoke music should be carried out from a walkie-talkie terminal to two or more walkie-talkie terminals.

[Claim 4] When carrying out coincidence distribution of the karaoke music to two or more walkie-talkie terminals in karaoke distribution to two or more walkie-talkie terminals, The karaoke distribution system with a still picture according to claim 3 characterized by compounding to a server two or more walkie-talkie terminal users' singing voice sung according to the karaoke music by delivery and this server through a walkie-talkie terminal, and distributing to two or more of the walkie-talkie terminals with karaoke music anew.

[Claim 5] The karaoke distribution system with a still picture according to claim 1 to 4 characterized by performing authentication to a walkie-talkie terminal user using the number of a walkie-talkie terminal in case a karaoke music distribution demand is received from a walkie-talkie terminal and a server distributes karaoke information to the walkie-talkie terminal.

[Claim 6] The karaoke distribution system with a still picture according to claim 1 to 5 characterized by a karaoke distribution entrepreneur doing tariff collection from a walkie-talkie terminal user according to the count of a karaoke music distribution demand from a walkie-talkie terminal.

[Claim 7] The karaoke distribution system with a still picture according to claim 1 to 5 characterized by collecting the charge of karaoke distribution from a walkie-talkie terminal user by selling the storage with which a karaoke distribution entrepreneur stores still picture data.

[Claim 8] The karaoke distribution system with a still picture according to claim 1 to 7 characterized by distributing the advertising information other than karaoke music data and still picture control data from a server, and collecting the charge of advertising printing from an advertising provider in the case of the karaoke music distribution demand from a walkie-talkie terminal user.

[Claim 9] It is the karaoke distribution system with a still picture according to claim 1 which

offers the information and is characterized by a walkie-talkie terminal user performing a karaoke music distribution demand simply from a server using the mail by distributing the mail which indicated the information about karaoke music to a walkie-talkie terminal.

[Claim 10] The karaoke distribution system with a still picture according to claim 1 characterized by a server distributing the still picture control data according to the display interval to a walkie-talkie terminal by giving the change demand of the display interval of the still picture for karaoke to a server through a walkie-talkie terminal.

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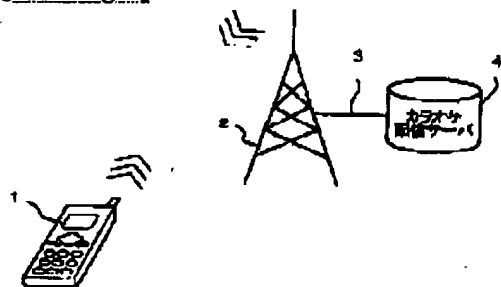
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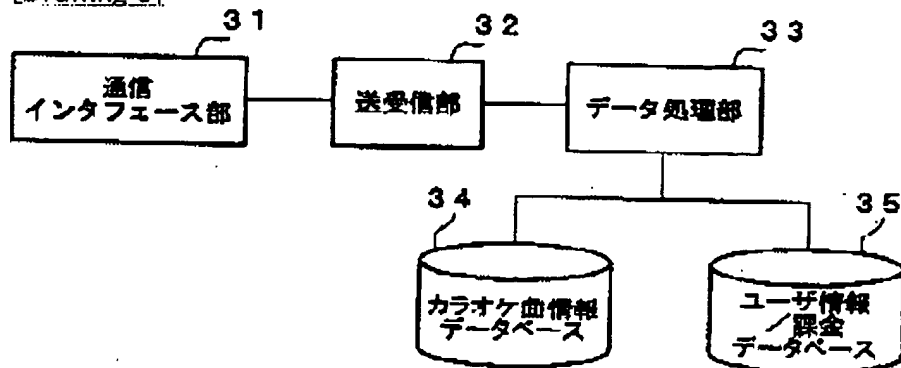
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DRAWINGS

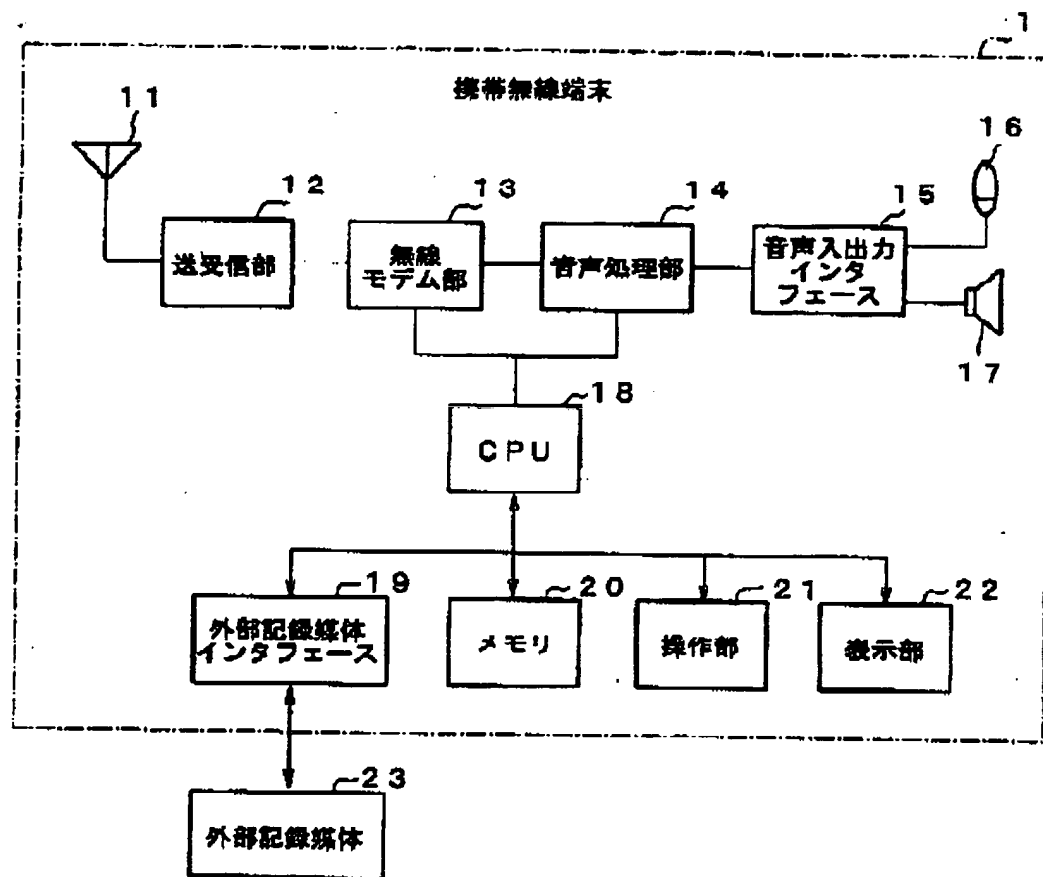
[Drawing 1]



[Drawing 3]



[Drawing 2]



[Translation done.]